Application No.: NOT YET ASSIGNED Docket No.: M4065.0489/P489-A

AMENDMENTS TO THE CLAIMS

- 1-21. (Cancelled)
- 22. (Original) A magnetic random access memory structure comprising:

a plurality of longitudinally extending planarized conductive lines formed over an insulating layer of a semiconductor substrate;

respective first magnetic layers over said conductive lines;

respective second magnetic layers over said first magnetic layers;

at least one contact; and

a planarized conductive material layer formed between said planarized conductive lines and said first magnetic layers.

- 23. (Original) The structure of claim 22 wherein said material layer is selected from the group consisting of tantalum (Ta), titanium (Ti), titanium-tungsten (TiW), titanium nitride (TiN) and chromium (Cr).
- 24. (Original) The structure of claim 22 wherein said material layer is a resistive material.
- 25. (Original) The structure of claim 22 wherein said insulating layer is selected from the group consisting of BPSG, SiO, SiO₂, Si₃N₄ and polyimide.
- 26. (Original) The structure of claim 22 wherein said material layer is formed to a thickness of about 5 nm to about 20 nm.

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27. (Original) The structure of claim 22 wherein said conductive lines are formed in a trench formed in said substrate.

28. (Original) A memory device comprising:

at least one magnetic random access memory cell, said magnetic random access memory cell comprising a first ferromagnetic layer formed over a first planarized conductor, a second ferromagnetic layer formed over said first ferromagnetic layer, a nonmagnetic layer between said first and second ferromagnetic layers, and a planarized conductor layer provided between said first conductor and said first ferromagnetic layer.

- 29. (Original) The device of claim 28 wherein said material layer is selected from the group consisting of tantalum (Ta), titanium (Ti), titanium-tungsten (TiW), titanium nitride (TiN) and chromium (Cr).
- 30. (Original) The device of claim 28 wherein said material layer is a resistive material.
- 31. (Original) The device of claim 28 wherein said insulating layer is selected from the group consisting of BPSG, SiO, SiO₂, Si₃N₄ or polyimide.
- 32. (Original) The device of claim 28 wherein said material layer is formed to a thickness of about 5 nm to about 20 nm.
- 33. (Original) The device of claim 28 wherein said first conductor is formed in a trench of a substrate.
 - 34. (Original) A processor-based system, comprising: a processor; and

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an integrated circuit coupled to said processor, said integrated circuit including a plurality of magnetic random access memory cells, each of said magnetic random access memory cells including a first ferromagnetic layer formed over a first planarized conductor, a second ferromagnetic layer formed over said first ferromagnetic layer, a nonmagnetic layer between said first and second ferromagnetic layers, and a planarized conductor layer provided between said first conductor and said first ferromagnetic layer.

- 35. (Original) The system of claim 34 wherein said material layer is selected from the group consisting of tantalum (Ta), titanium (Ti), titanium-tungsten (TiW), titanium nitride (TiN) and chromium (Cr).
- 36. (Original) The system of claim 34 wherein said material layer is a resistive material.
- 37. (Original) The system of claim 34 wherein said insulating layer is selected from the group consisting of BPSG, SiO₂, Si₃N₄ and polyimide.
- 38. (Original) The system of claim 34 wherein said material layer is formed to a thickness of about 5 nm to about 20 nm.
 - 39. (Original) The system of claim 34 wherein said first conductor is formed in a trench of a substrate.